

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

- A<sup>3</sup>
- 1.(Original) A method of measurement reporting in a telecommunication system comprising mobile stations and a network comprising base stations, wherein decisions upon establishing or canceling a communication link between a mobile station and a base station are made in the network on the basis of measurement reports sent from the mobile station to the network, **characterized** in that the method comprises the steps of
- defining first and second sets of trigger conditions corresponding, respectively, to radio signal properties in the uplink and downlink directions,
  - defining a logical function for combining said first and second sets of trigger conditions,
  - at the mobile station, determining the state of each trigger condition, combining the states according to the logical function, and sending a measurement report to a base station in dependence upon the condition of the logical function.
- 2.(Original) A method according to claim 1, **characterized** in that the first and second set of trigger conditions are dynamically defined by the network.
- 3.(Original) A method according to claim 1, **characterized** in that the logical function is defined by the network.
- 4.(Previously Presented) A method according to claim 1 **characterized** in that
- a first combination of the first and second sets of trigger conditions and the logical function are defined to be used for radio signals from or to active base stations having an active link with the mobile station, and
  - a second combination of the first and second sets of trigger conditions and the logical function are defined to be used for radio signals from or to candidate base stations not having an active link with the mobile station, and

at the mobile station, the first combination is used for radio signals from or to active base stations having an active link with the mobile station and the second combination is used for radio signals from or to candidate base stations not having an active link with the mobile station.

5.(Original) A method according to claim 4, and comprising the step of creating an active link between the mobile station and a candidate base station not having an active link with the mobile station when the network receives from the mobile station a measurement report triggered by the radio signals from or to that candidate base station.

6.(Original) A method according to claim 4, and comprising the step of deleting an active link between the mobile station and a base station when the network receives from the mobile station a measurement report triggered by the radio signals from or to that active base station.

7.( Currently Amended) A method according to ~~claim 1~~ claim 4, **characterized** in that said two different logical functions are such that when a base station is in the active set, a measurement report is not triggered by a radio signal of that base station for the same set of radio properties as would trigger the transmission of a measurement report when the base station is in the candidate set.

8.( Currently Amended) A method according to claim 1, **characterized** in that the method comprises a step of defining a logical function for use when the number of base stations in the active set is equal to a predefined maximum number, and defining the first and second sets of trigger conditions is on the basis of the radio signal properties of the active base station having the worst signal conditions, and wherein a measurement report ~~is~~ triggered by a radio signal of a candidate base station causes that worst base station to be replaced by the candidate base station.

9.(Original) A method according to claim 8, **characterized** in that the maximum number is dynamically defined by the network.

10.(Original) A method according to claim 1, **characterized** in that at least one of the trigger conditions is a condition for the received power level or a Junction thereof.

11.(Original) A method according to claim 1 **characterized** in that at least one of the trigger conditions is a condition for the interference in the received radio signal or a function thereof.

12.(Original) A method according to claim 11 in a network using CDMA air interface in which the connections are divided using different spreading codes, **characterized** in that the value for the interference is an estimate for the interference power made before the signal is correlated with the spreading code used in the connection.

13.(Original) A method according to claim 11 in a network using CDMA air interface in which the connections are divided using different spreading codes, **characterized** in that the value for the interference is an estimate for the interference power made after the signal is correlated with the spreading code used in the connection.

14.( Previously Presented) A method according to claim 1, **characterized** in that at least one of the sets of trigger conditions is a condition for the change of the parameters of the received radio signals or a function thereof.

15.( Previously Presented) A method according to claim 1, **characterized** in that the trigger conditions comprise at least one base station specific offset value.

16.(Original) A method according to claim 15, **characterized** in that at least one of the offset values is dynamically defined by the network.

17.(Original) A method according to claim 1, **characterized** in that the network informs the mobile station what information to include in the measurement report, and the mobile station includes this information in the measurement report.

18.(Original) A method according to claim 17, **characterized** in that the radio signals are ordered using a predefined condition, and in the measurement report sent from the

mobile station, information about the properties of a predefined number of the best radio signals according to the condition are reported.

19.(Original) A method according to claim 17, **characterized** in that the number of radio signals to be reported is given by the network.

20.(Original) A method according to claim 17, **characterized** in that the measurement report comprises a value for the path loss for a reported signal or a function thereof.

21.(Original) A method according to claim 17, **characterized** in that the measurement report comprises a value for the carrier to interference ratio of a reported signal of a function thereof.

22.(Original) A mobile station for a telecommunication system comprising mobile stations and a network comprising base stations, wherein the mobile stations monitor the radio signals sent by the base stations, **characterized** in that the mobile station has

receiving means for receiving information about first and second set of trigger conditions corresponding, respectively, to uplink and downlink signals and a logical function,

monitoring means for monitoring radio signals,

checking means which is responsive to the receiving means and the monitoring means and which has the functionality of checking the state of each trigger conditions, combining means responsive to the checking means for combining the states according to the logical function, and

sending means responsive to the combining means for sending a measurement report to the base station.

23.(Original) A mobile station according to claim 22 **characterized** in that

the receiving means are arranged to receive a first combination of a first and a second set of trigger conditions and the logical function and a second combination of a first and a second set of trigger conditions and the logical function, and

the checking means and the combining means are arranged to use the first combination for radio signals from or to active base stations having an active link with the

mobile station and the second combination is used for radio signals from or to candidate base stations not having an active link with the mobile station.

24.(New) A base station for a telecommunication system comprising mobile stations and a network comprising base stations, wherein the base stations send radio signals monitored by the mobile stations, the base station comprising:

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a first defining means for defining first and second sets of trigger conditions corresponding, respectively, to radio signal properties in uplink and downlink directions, and

a second defining means for defining a logical function for combining said first and second sets of trigger conditions.

25.(New) The base station according to claim 24, wherein the base station further comprises:

transmitting means for transmitting the defined first and second sets of trigger conditions and the defined logical function to at least one mobile station.

26.(New) The base station according to claim 25, wherein the base station further comprises:

measurement report receiving means for receiving a measurement report from a mobile station, the measurement report having been prepared by said mobile station on the basis of the first and second sets of trigger conditions and the logical function transmitted to said mobile station.

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